

The birth of an Ozone Site

The QA manual contains a description of: Who, where, when and how we monitor Ozone.

Reasons to clean up our air



Visibility



What we do affects many things



Example of pollution



We monitor wind so we know the direction and speed the ozone travels



We use different types of structures



All sites are required to have the appropriate manuals and supplies for the equipment on site

We use Plastifabs



Buildings



Trailers



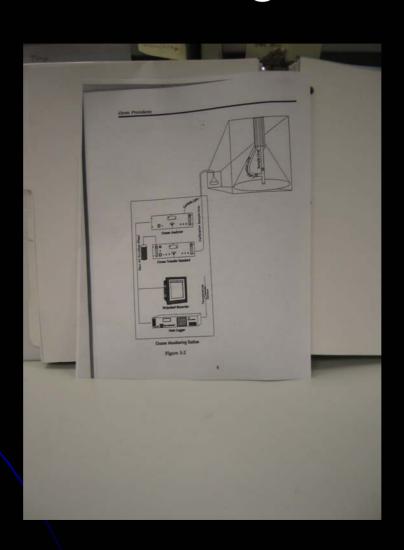
Weather problems (when does the season start?)



Probe height must be > 9ft 9in and < 50ft from the ground

| City: County: | | 8 |
|---------------|--|--------|
| 1. | Vertical distance from ground to probe: Must be between 3 and 15 meters. NOTE: The inlet probe must be located away from dirty, dusty areas. | Meters |
| 2. | Distance from support structure? Distance both horizontally and vertically should be ≥ 1 meter. | Meters |
| 3. | Is there an unrestricted air flow in an arc of 270° (180° if on the side of a building) and is the predominant wind direction included in the arc? | Yes No |
| 4. | Distance from probe to drip line of nearest tree(s)? The distance between probe and nearest tree dripline should be ≥ 20 meters. If the tree acts as an obstruction, it must be ≥ 10 meters to drip line. | Meters |
| 5. | Distance from the inlet probe to the nearest obstacle? The distance must be at least twice the height of the portion of the obstacle that protrudes above the inlet probe. | Meters |
| б. | Comments: | |

Probe configuration



Weather sometimes changes our access



Sometime it's a good old ladder



Road conditions vary



One of the site criteria, is access

finally the site



Upon entering the site check it over to make sure its ok.

Before leaving did you enable the data logger and are the settings

of the equipment in the proper position. Are all security issues in place.

| STATION CHECKLIST | |
|---|-----|
| Site name | |
| Site number | |
| Operator | |
| Record the time the station was entered. | PST |
| Record the date the station inspection. | |
| THE MONITORING STATION | |
| 2. Has any damaged occurred to the station since the last inspection? | |
| Are there any unusual noises or odors? | |
| THE ANALYZER | |
| Is the power on? | |
| Is the sample flow set to 2.0 LPM? | |
| Is the selector switch in the "operate" mode? | 1 |
| Is the solenoid valve cycling every 10 seconds? | |
| Has channel 03 on the data logger been disabled? | |
| Has it been noted on the strip chart? | |
| Record the sample chamber temperature. | °C |
| Record the unadjusted sample frequency. | KHz |
| Record the sample chamber pressure. | Atm |
| Is the control frequency 50 000?. | |
| Do the analyzer, recorder and data logger all read the same? | |
| Record the analyzer span setting. | |
| THE TRANSFER STANDARD | ĺ |
| Is the ozone adjust thumbwheels set to 000? | |
| Is the auto/man switch in the "auto" position? | |
| Is the ozone switch in the "off" position? | |
| Is the generator pump switch in the "on" position? | |
| Is the selector switch in the "operate" position? | |
| Is the T/P switch in the "on" position? | |
| Is the valve switch in the "on" position? | |
| Is the sample pump switch in the "on" position? | |

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| FOLLOWING A CALIBRATION | |
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| ADDITIONAL COMMENTS OR MAINT ENAM | CE |

We have equipment



different ways we display our equipment



Electronic equipment must be kept Between 20 and 30 C temperature (That's 68 to 86 degrees F)

Sometimes the equipment needs attention



Clean air is important to ALL of us

